

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040220\  
 Data File : VY002206.D  
 Acq On : 02 Apr 2020 20:27  
 Operator : SY/MD  
 Sample : L2132-01RE  
 Misc : 8.21G/5ML/MSVOA Y/SOIL  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 03 03:18:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 105634   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 198407   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 136270   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 28488    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 64303    | 55.07  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.14% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 58489    | 52.61  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 105.22% |          |
| 50) Toluene-d8              | 10.19 | 98   | 218649   | 47.34  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 94.68%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 48076    | 29.77  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 59.54%  |          |

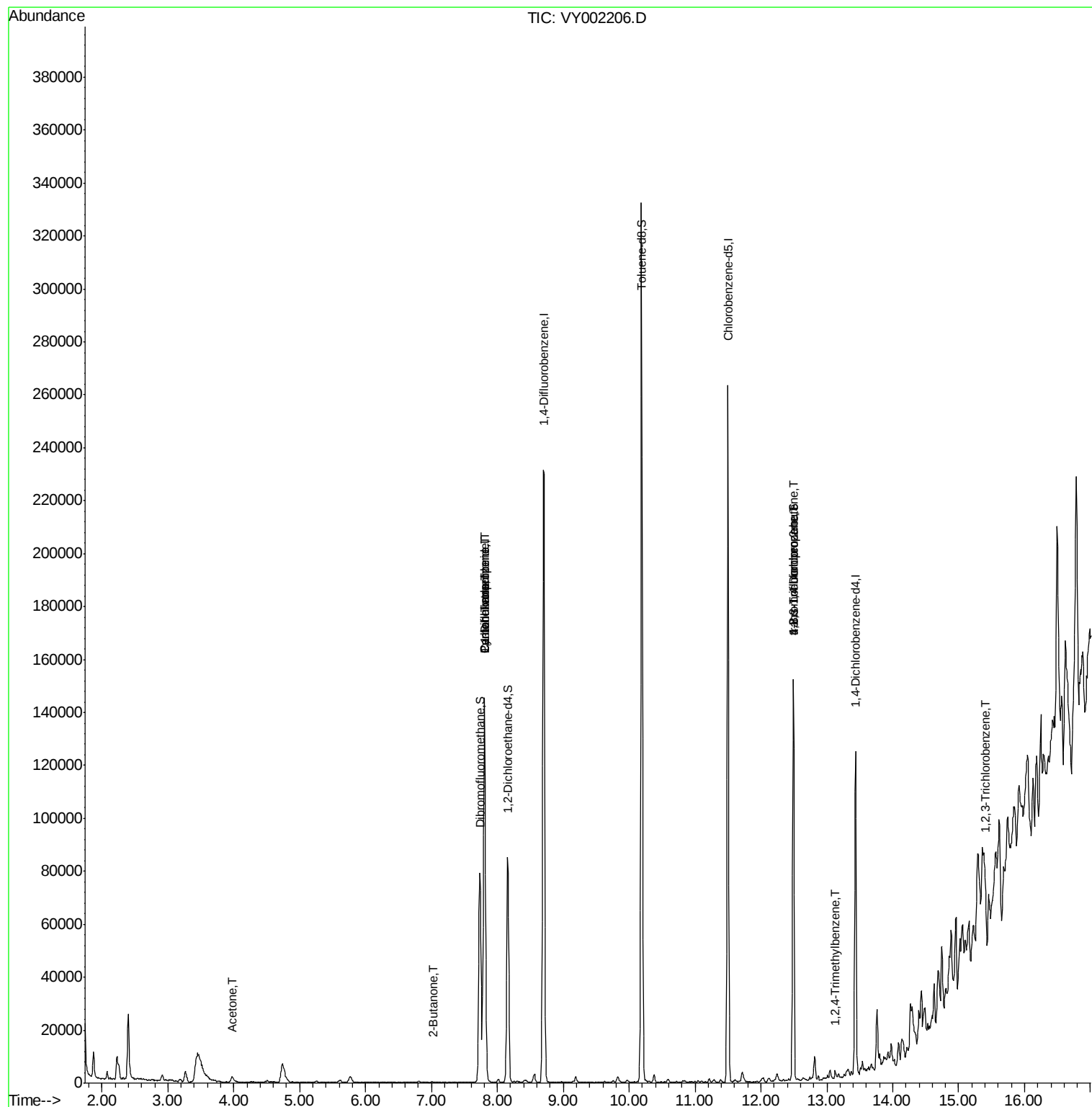
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.97  | 43   | 4230     | 12.893    | ug/l   | 98     |
| 20) Methylene Chloride         | 4.74  | 84   | 5036     | Below Cal | #      | 95     |
| 25) 2-Butanone                 | 7.02  | 43   | 639      | 1.268     | ug/l # | 50     |
| 31) Cyclohexane                | 7.80  | 56   | 3381     | 1.390     | ug/l # | 8      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 9038     | 4.816     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 11107    | 6.976     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 24704    | 77.524    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 24704    | 150.190   | ug/l # | 17     |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 1875     | 1.078     | ug/l   | 93     |
| 96) 1,2,3-Trichlorobenzene     | 15.41 | 180  | 732      | 1.537     | ug/l # | 1      |

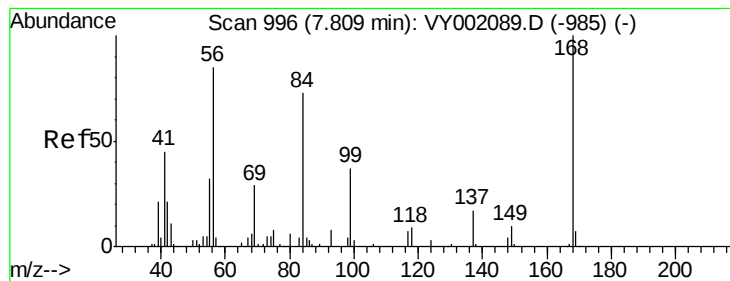
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY040220\  
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Sample : L2132-01RE  
Misc : 8.21G/5ML/MSVOA Y/SOIL  
ALS Vial : 26 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Apr 03 03:18:55 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 07:11:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

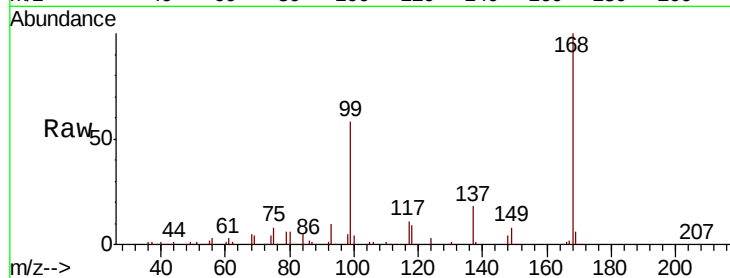
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion:168 Resp: 105634

Ion Ratio Lower Upper

168 100

99 57.7 47.6 71.4



Abundance Ion 167.90 (167.60 to 168.60): VY002089.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002089.D (-985) (-)

7.80

50000

40000

30000

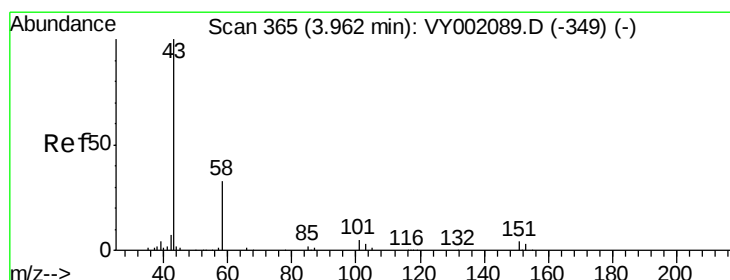
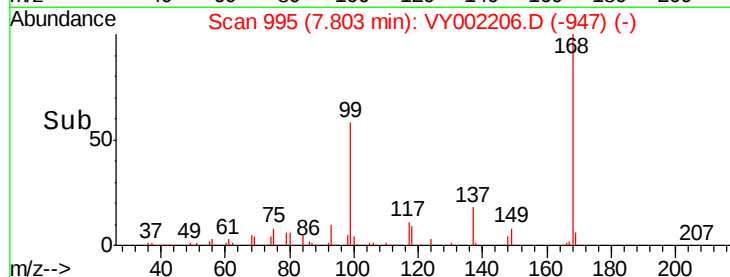
20000

10000

0

7.70 7.80 7.90

Time-->



#16

Acetone

Concen: 12.893 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VY002206.D

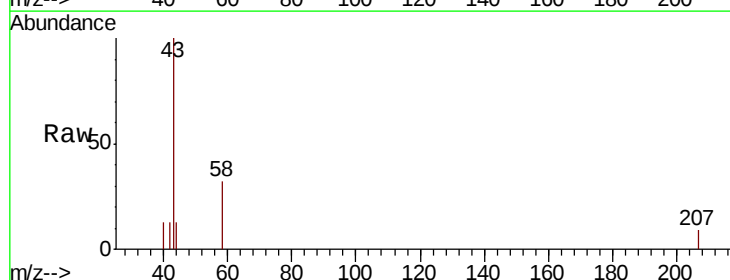
Acq: 02 Apr 2020 20:27

Tgt Ion: 43 Resp: 4230

Ion Ratio Lower Upper

43 100

58 31.7 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VY002089.D (-349) (-)

Ion 58.00 (57.70 to 58.70): VY002089.D (-349) (-)

3.97

1500

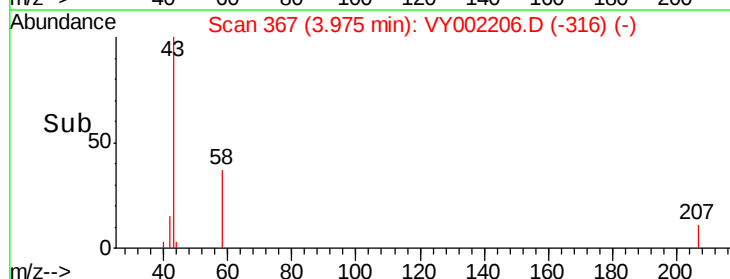
1000

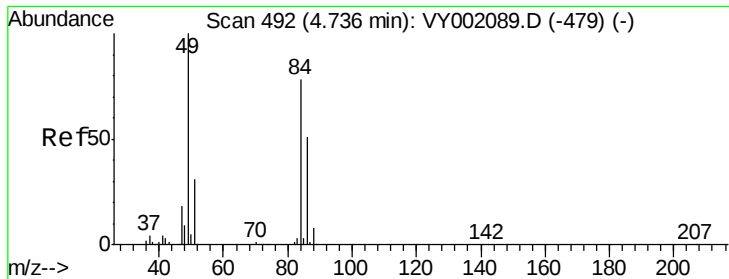
500

0

3.90 4.00 4.10

Time-->

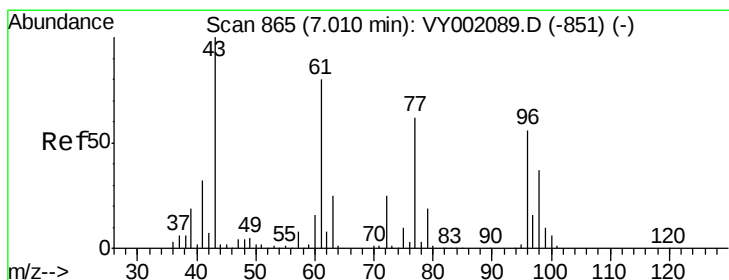
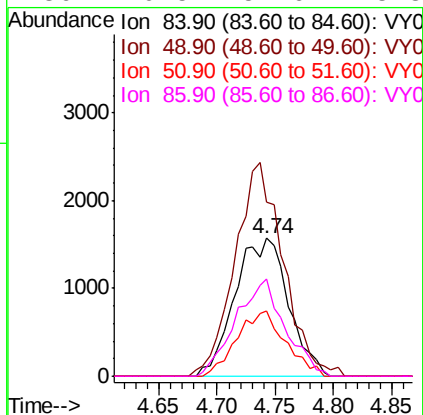
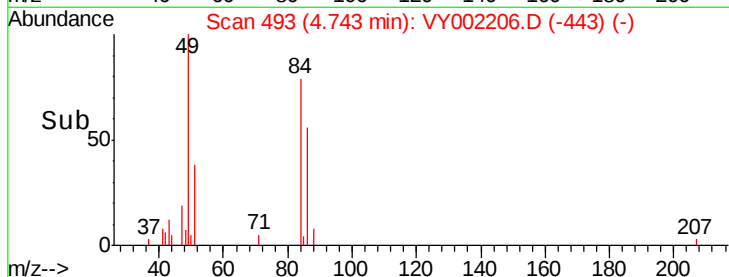
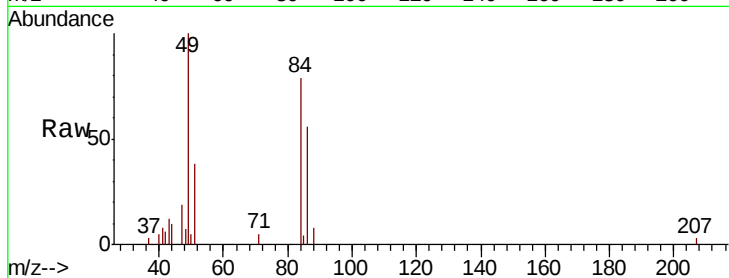




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.74 min Scan# 493  
Delta R.T. 0.01 min  
Lab File: VY002206.D  
Acq: 02 Apr 2020 20:27

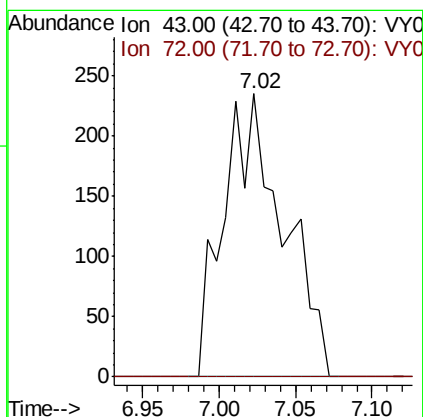
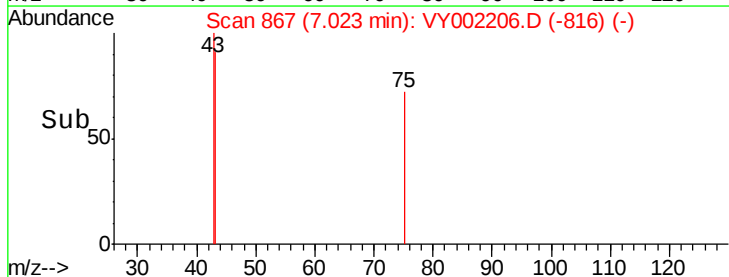
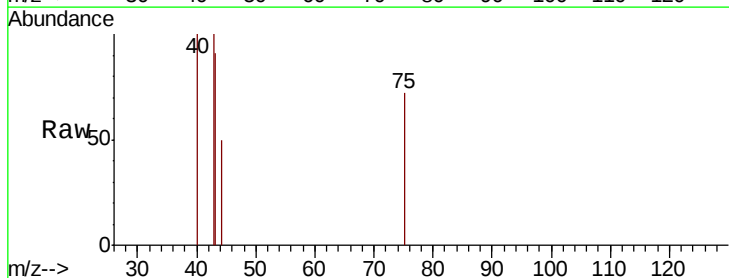
Instrument :  
MSVOA\_Y  
ClientSampled :

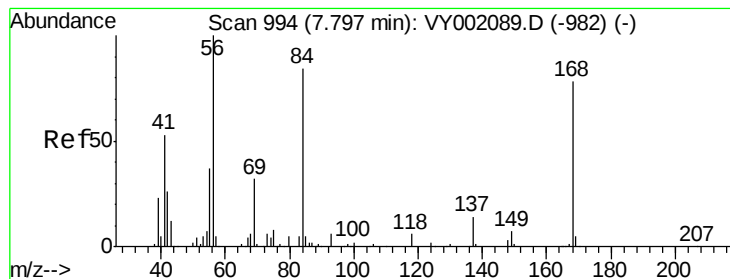
Tot Ion: 84 Resp: 5036  
Ion Ratio Lower Upper  
84 100  
49 126.2 102.2 153.4  
51 47.5 31.2 46.8#  
86 70.5 52.6 78.8



#25  
2-Butanone  
Concen: 1.268 ug/l  
RT: 7.02 min Scan# 867  
Delta R.T. 0.01 min  
Lab File: VY002206.D  
Acq: 02 Apr 2020 20:27

Tgt Ion: 43 Resp: 639  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.2 30.2#





#31

Cyclohexane

Concen: 1.390 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

Instrument :  
MSVOA\_Y  
ClientSampleId :

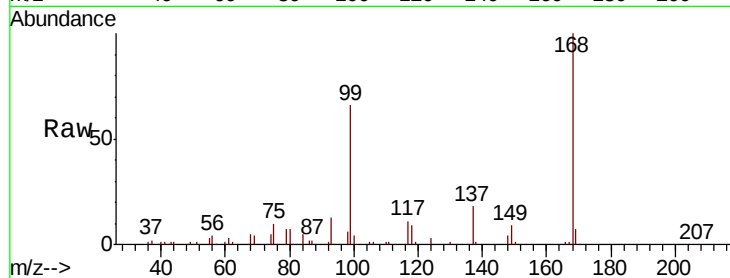
Tot Ion: 56 Resp: 3381

Ion Ratio Lower Upper

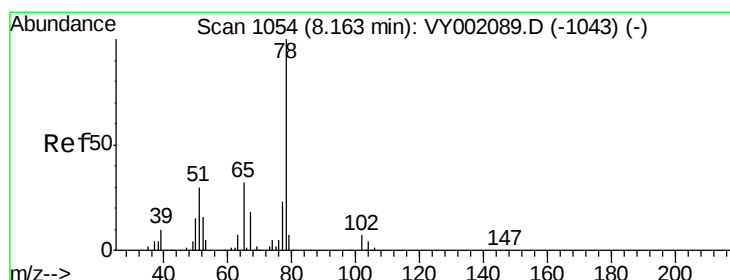
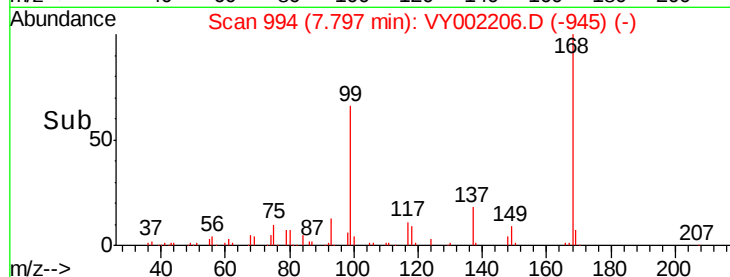
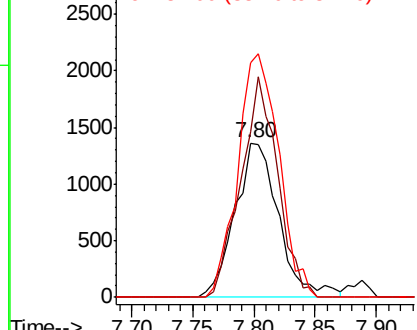
56 100

69 107.0 25.8 38.8#

84 152.2 67.1 100.7#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 55.066 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY002206.D

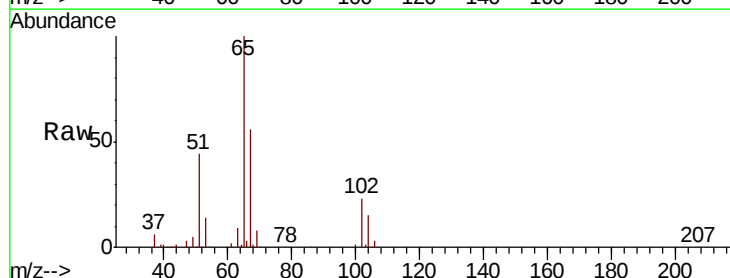
Acq: 02 Apr 2020 20:27

Tgt Ion: 65 Resp: 64303

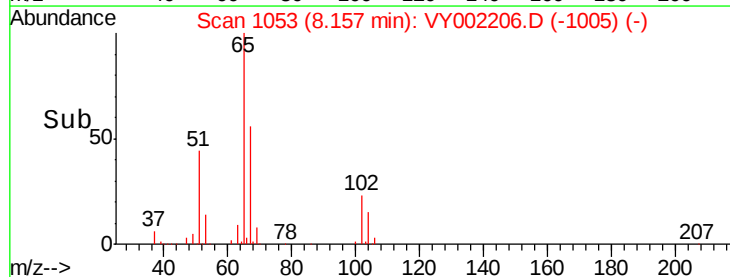
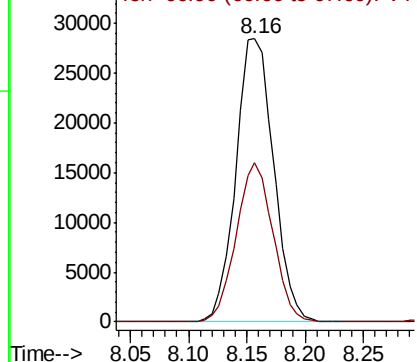
Ion Ratio Lower Upper

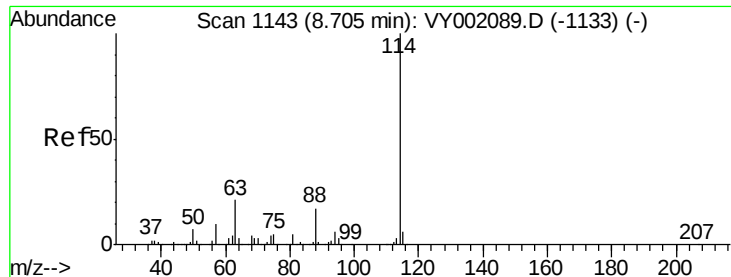
65 100

67 54.9 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

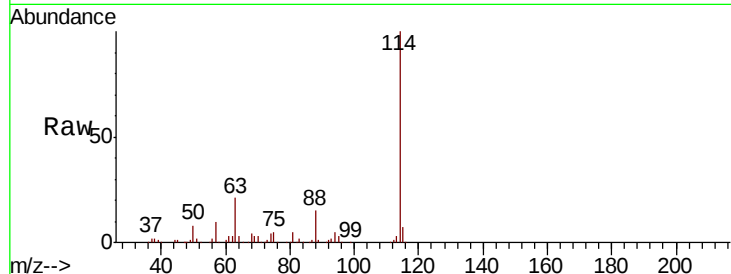




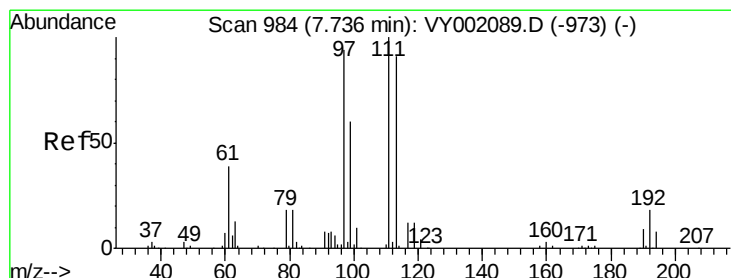
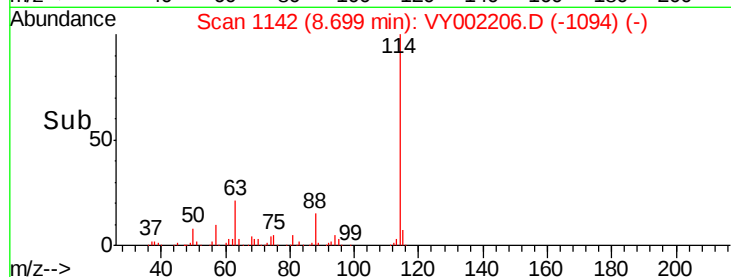
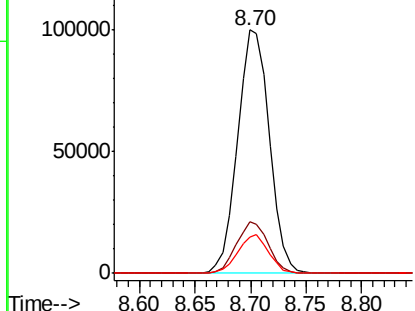
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.01 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.0  | 0.0   | 41.4  |
| 88      | 15.0  | 0.0   | 33.0  |

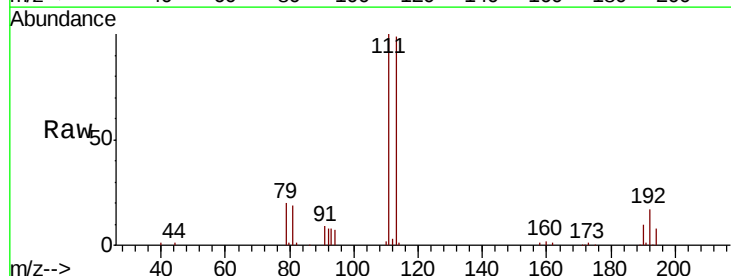


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

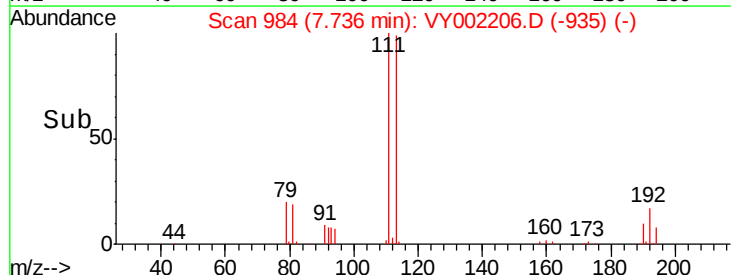
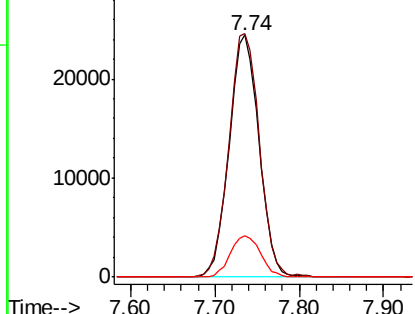


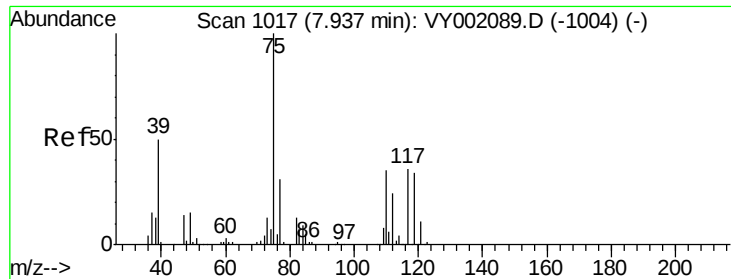
#35  
 Dibromofluoromethane  
 Concen: 52.612 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. 0.00 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 84.4  | 126.6 |
| 192     | 17.3  | 14.6  | 21.8  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

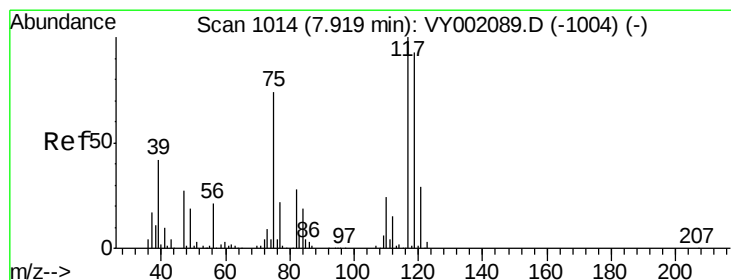
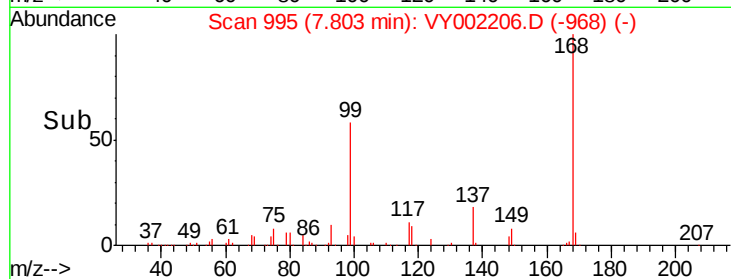
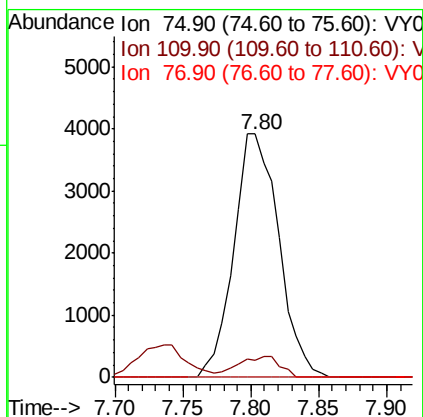
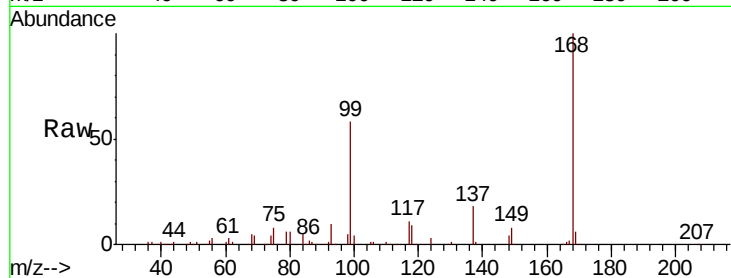




#36  
 1,1-Dichloropropene  
 Concen: 4.816 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.13 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

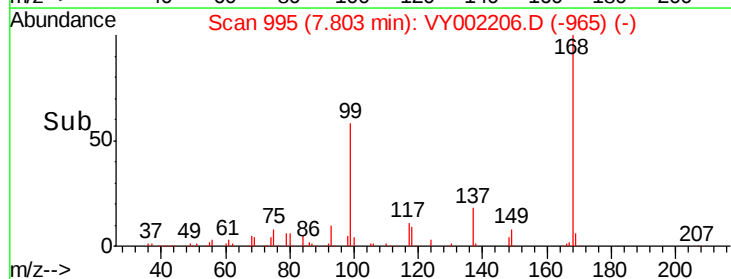
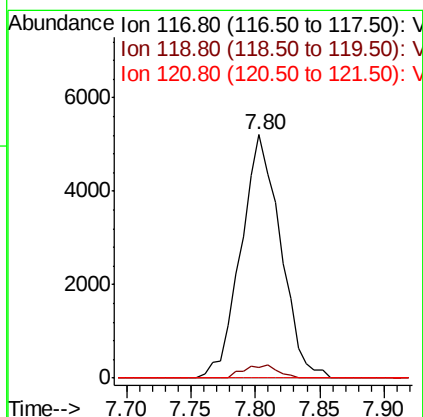
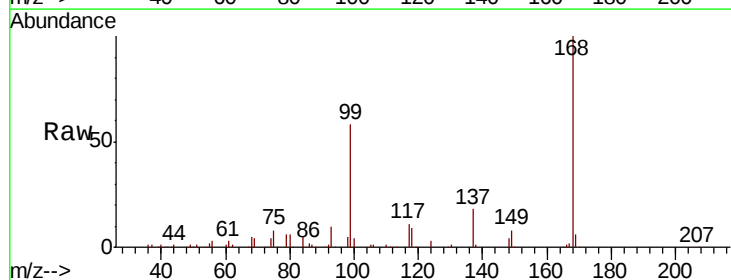
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

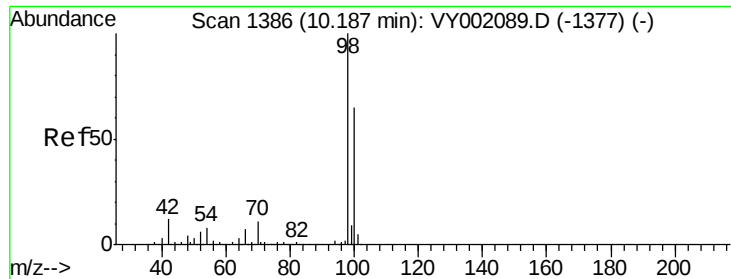
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.1   | 17.2  | 51.6# |
| 77      | 0.0   | 24.7  | 37.1# |



#38  
 Carbon Tetrachloride  
 Concen: 6.976 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.12 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.5   | 74.3  | 111.5# |
| 121     | 0.0   | 23.3  | 34.9#  |





#50

Toluene-d8

Concen: 47.344 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. 0.00 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

Instrument :

MSVOA\_Y

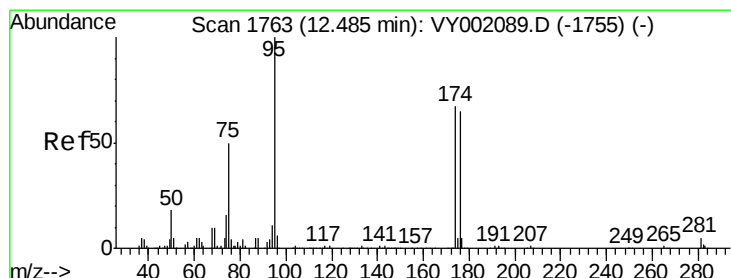
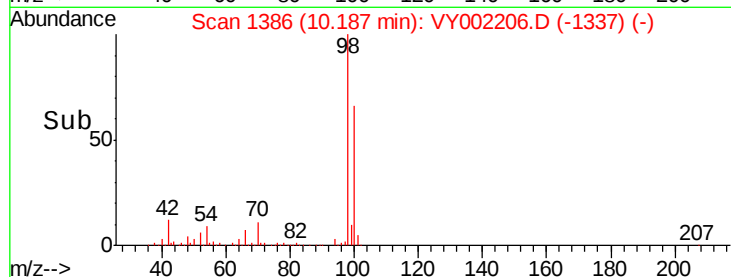
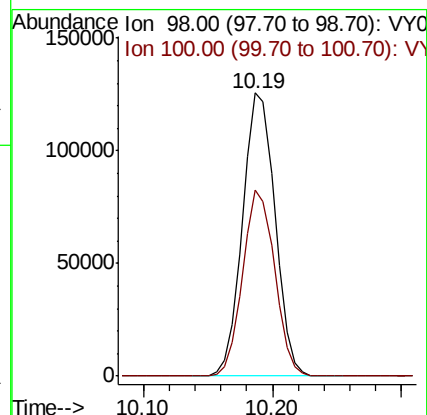
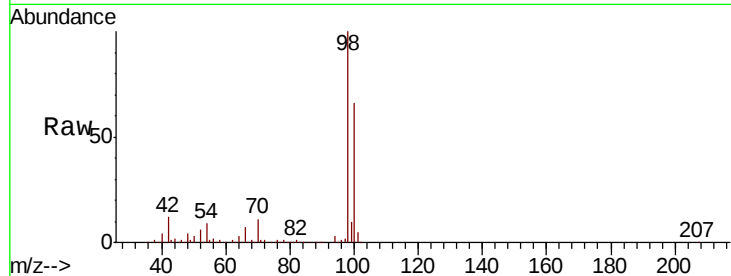
ClientSampled :

Tot Ion: 98 Resp: 218649

Ion Ratio Lower Upper

98 100

100 64.7 51.6 77.4



#62

4-Bromofluorobenzene

Concen: 29.765 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

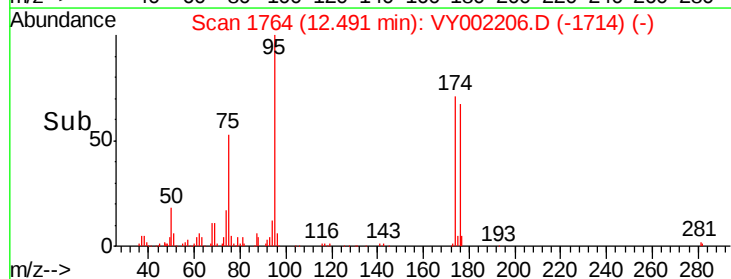
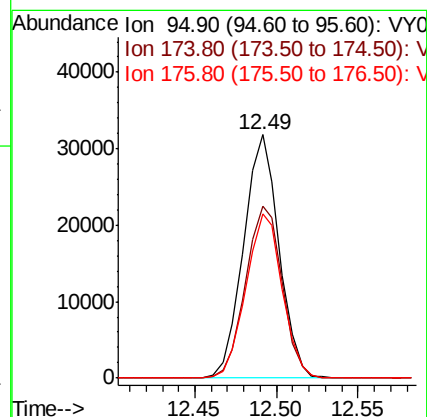
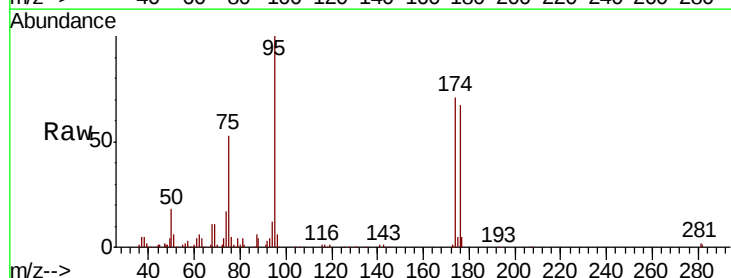
Tgt Ion: 95 Resp: 48076

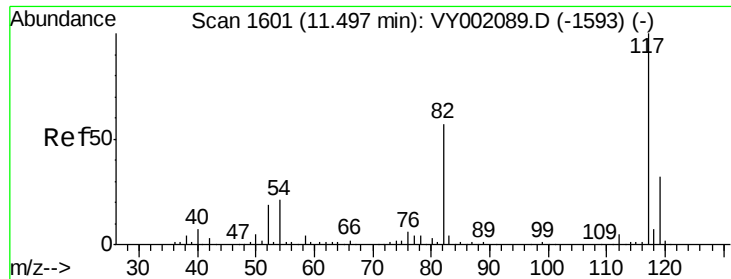
Ion Ratio Lower Upper

95 100

174 72.9 0.0 143.4

176 69.2 0.0 137.0

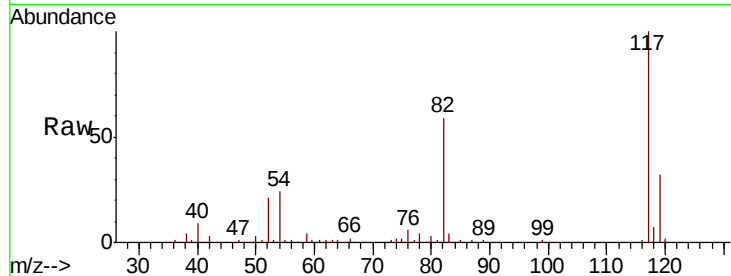




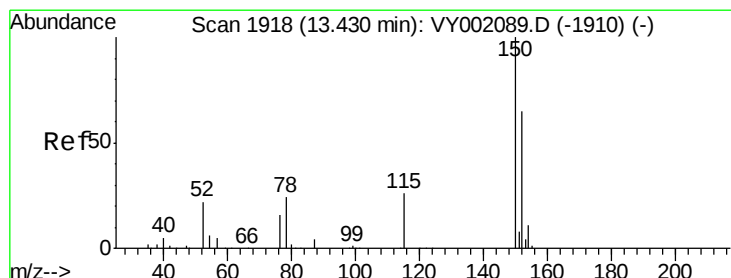
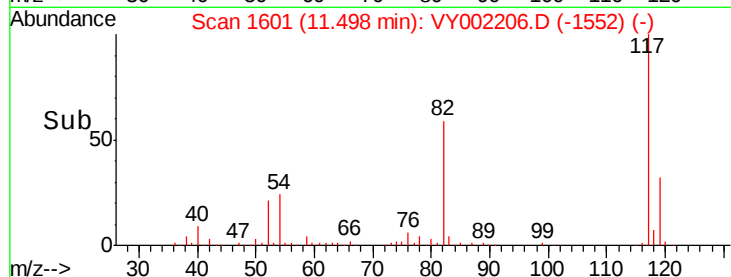
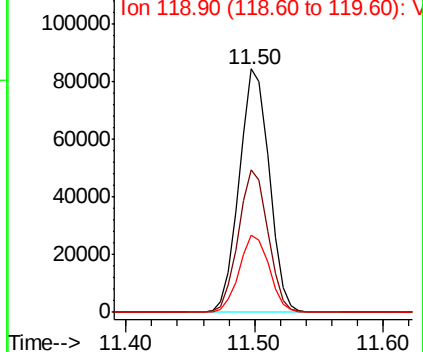
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. 0.00 min  
Lab File: VY002206.D  
Acq: 02 Apr 2020 20:27

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:117 Resp: 136270  
Ion Ratio Lower Upper  
117 100  
82 58.7 45.4 68.2  
119 31.9 25.3 37.9

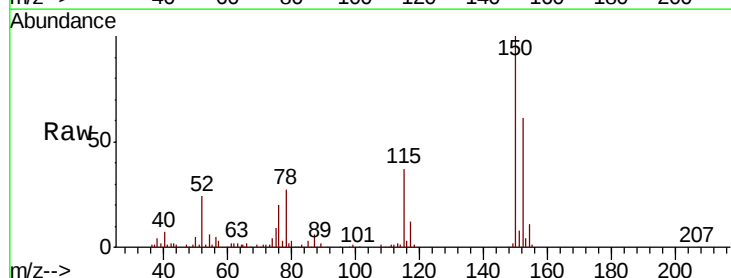


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

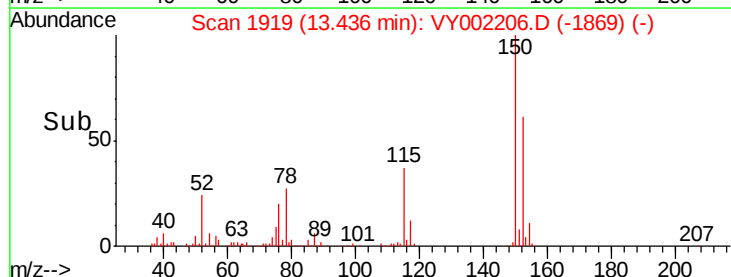
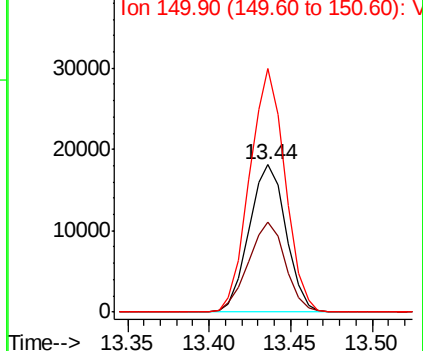


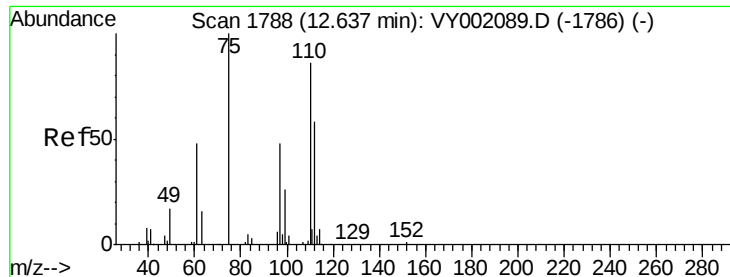
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.01 min  
Lab File: VY002206.D  
Acq: 02 Apr 2020 20:27

Tgt Ion:152 Resp: 28488  
Ion Ratio Lower Upper  
152 100  
115 61.7 31.2 93.6  
150 158.6 0.0 354.8



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 77.524 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

Instrument :

MSVOA\_Y

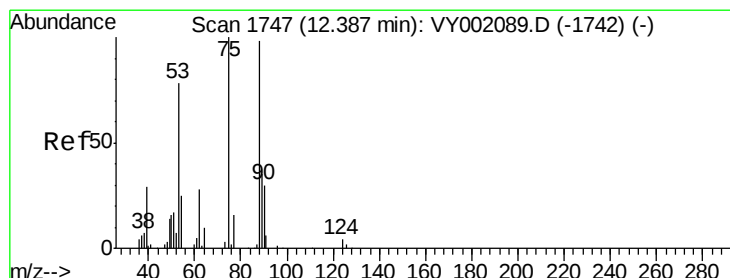
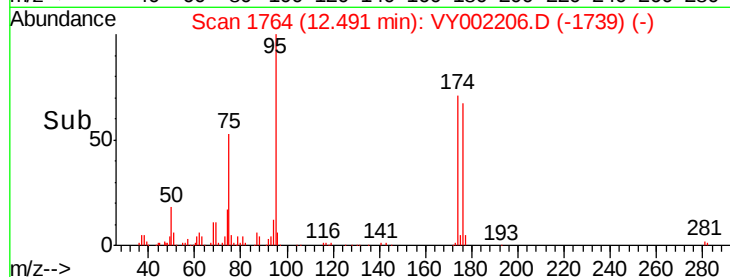
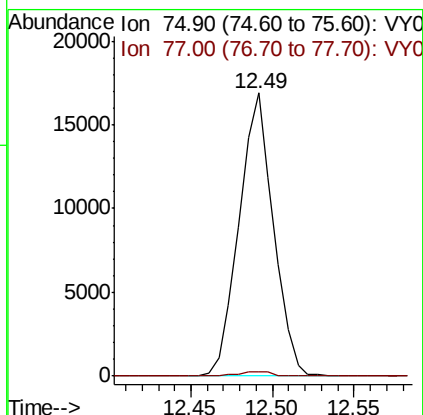
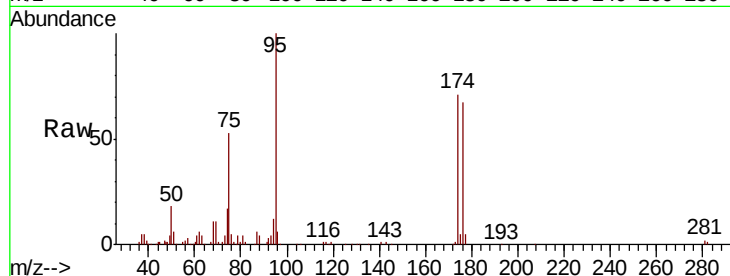
ClientSampleId :

Tot Ion: 75 Resp: 24704

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 150.190 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002206.D

Acq: 02 Apr 2020 20:27

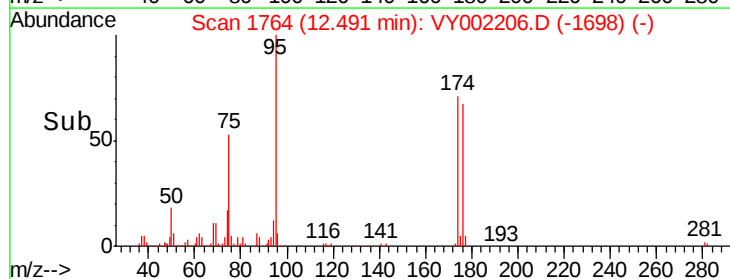
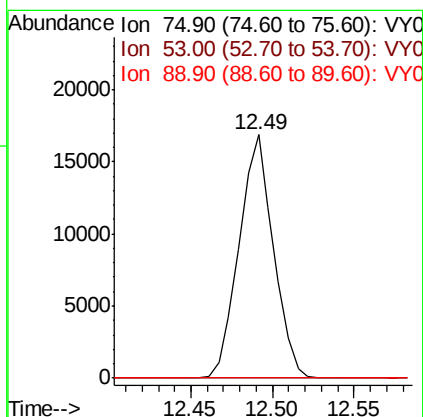
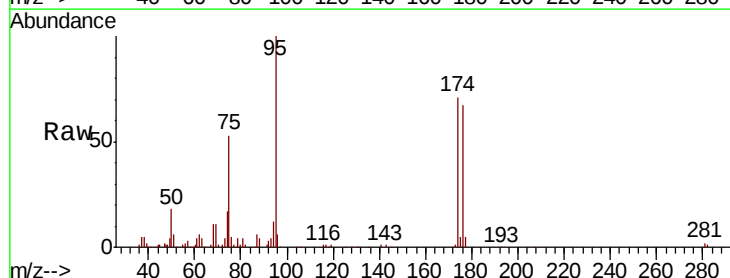
Tgt Ion: 75 Resp: 24704

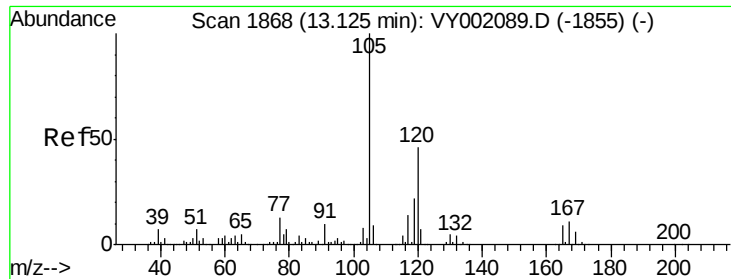
Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

89 0.0 33.4 50.0#

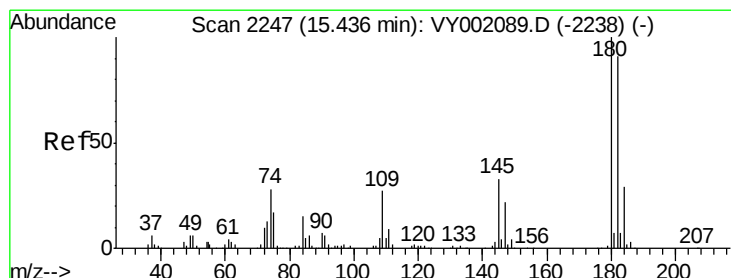
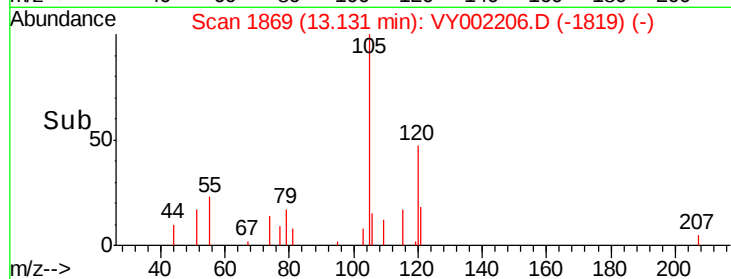
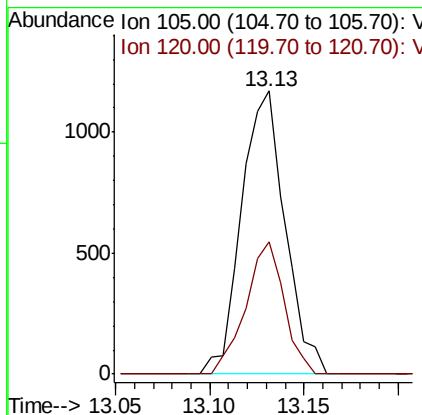
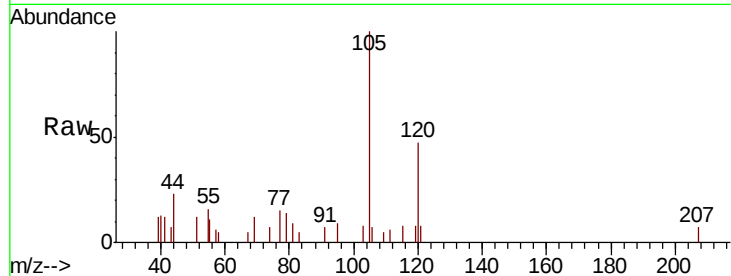




#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.078 ug/l  
 RT: 13.13 min Scan# 1869  
 Delta R.T. 0.01 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

Instrument :  
 MSVOA\_Y  
 ClientSampled :

Tot Ion:105 Resp: 1875  
 Ion Ratio Lower Upper  
 105 100  
 120 41.1 22.9 68.5



#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.537 ug/l  
 RT: 15.41 min Scan# 2243  
 Delta R.T. -0.02 min  
 Lab File: VY002206.D  
 Acq: 02 Apr 2020 20:27

Tgt Ion:180 Resp: 732  
 Ion Ratio Lower Upper  
 180 100  
 182 61.6 46.8 140.3  
 145 412.8 16.7 50.1#

